Appl. No. 10/738,469 Response to Office Action of August 25, 2005 Attorney Docket K-2104

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A twist drill comprising:

a cutting tip including a front flank face, a substantially cylindrical tool body extending rearwardly from the cutting tip, and a shank;

the tool body having a rotational axis therethrough and including at least one flute formed on an outer peripheral surface thereof and extending to the front flank face;

wherein the at least one flute includes a first helical portion opening to the front flank face and a second helical portion extending from the rear end of the first helical portion and a third helical portion extending from the rear of the second helical portion toward the rear portion of the tool body, wherein the second helical portion twists in a direction opposite of the first helical portion and wherein the third helical portion twists in a direction opposite of the second helical portion.

- 2. (Original) The twist drill of claim 1 wherein the first helical portion is positioned in a positive helix.
- 3. (Original) The twist drill of claim 1 wherein the cutting tip is an interchangeable cutting tip.
- 4. (Original)The twist drill of claim 1 wherein the cutting tip includes an S-shaped chisel edge.
 - 5. (Original) The twist drill of claim 1 wherein the tool body is made of steel.
- 6. (Original) The twist drill of claim 1 wherein the tool body is made of cemented carbide.
- 7. (Original) The twist drill of claim 1 wherein the tool body includes a pair of helical flutes formed in a peripheral outer surface of the tool body.

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- 8. (Original) The twist drill of claim 7 wherein the helix angle of the first helical portion is maintained constant from the cutting tip to the tool body and on a portion of the flutes in the tool body.
- 9. (Original) The twist drill of claim 1 wherein the twist drill includes at least one coolant hole.
- 10. (Original) The twist drill of claim 1 wherein the helix angle of the first helical portion is about 0 to about 40 degrees.
- 11. (Original) The twist drill of claim 10 wherein the helix angle of the first helical portion is about 30 degrees.
- 12. (Original) The twist drill of claim 1 wherein the helix angle of the second helical portion is from about 1 to about 30 degrees.
- 13. (Original) The twist drill of claim 12 wherein the helix angle of the second helical portion is about 3 degrees.
 - 14. (Cancelled)
 - 15. (Cancelled)
- 16. (Currently Amended) The twist drill of claim 15 1 wherein the third helical portion extends from the rear of the second helical portion to the shank of the drill.
- 17. (Currently Amended) The twist drill of claim 14 <u>1</u> wherein the helix angle of the third helical portion is constant.
- 18. (Currently Amended) The twist drill of claim 44 1 wherein the helix angle of the third helical portion is from about 0 to about 40 degrees.
- 19. (Currently Amended) The twist drill of claim 44 1 wherein the helix angle of the third helical portion is about 5 degrees.
- 20. (Original) The twist drill of claim 1 wherein the twist drill has web thickness that is constant along the length of the twist drill.

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- 21. (Original) The twist drill of claim 1 wherein the twist drill has a web thickness that is tapered along the length of the twist drill.
- 22. (Original) The twist drill of claim 1 wherein the twist drill has a web thickness that varies along the longitudinal length of the twist drill.